

WHAT IS CLAIMED IS:

1. An electrical bicycle shift control device comprising:
 - a handlebar mounting portion configured to be clamped onto a handlebar, the handlebar mounting portion including a switch mounting structure; and
 - an electrical shift control switch portion including a mating mounting structure detachably coupled to the switch mounting structure of handlebar mounting portion and an operating member arranged and configured to move relative to the handlebar mounting portion between a neutral position and a first actuating position,
 - the mating mounting structure of the electrical shift control switch portion cooperating with the switch mounting structure such that the electrical control switch portion is removable from the handlebar mounting portion without removing the handlebar mounting portion from the handlebar.
2. The electrical bicycle shift control device according to claim 1, wherein
 - the mating mounting structure and the switch mounting structure include a protrusion and recess arrangement that are releasably coupled together by a fastener such that the mating mounting structure is movable relative to the switch mounting structure when the fastener is removed.
3. The electrical bicycle shift control device according to claim 1, wherein
 - the operating member is further arranged and configured to be selectively moved relative to the handlebar mounting portion between the neutral position and a second actuating position that is spaced from the first actuating position.
4. The electrical bicycle shift control device according to claim 3, wherein
 - the electrical shift control switch portion further includes a biasing element arranged and configured to urge the operating member to the neutral position.
5. The electrical bicycle shift control device according to claim 4, wherein

the operating member of the electrical shift control switch portion is further arranged and configured to rotate about an operating axis between the neutral position and the first and second actuating positions.

6. The electrical bicycle shift control device according to claim 5,
wherein

the operating axis of the operating member is non-parallel to a center axis of the handlebar.

7. The electrical bicycle shift control device according to claim 4,
wherein

the operating member of the electrical shift control switch portion is further arranged and configured such that the first and second actuating positions are arranged on opposite sides of the neutral position.

8. The electrical bicycle shift control device according to claim 1,
wherein

the operating member of the electrical shift control switch portion is further arranged and configured to rotate about an operating axis between the neutral position and the first actuating position.

9. The electrical bicycle shift control device according to claim 8,
wherein

the operating member has a dial element with at least one projection extending radially outwardly from the dial element relative to the operating axis.

10. The electrical bicycle shift control device according to claim 9,
wherein

the dial element has a flange element extending outwardly therefrom that is circumferentially spaced from the projection about the operating axis.

11. An electrical bicycle shift control assembly comprising:

a first shift control device including a first handlebar mounting portion configured to be clamped onto a handlebar and a first electrical shift control switch portion mounted to the first handlebar mounting portion; and

a bicycle computer unit including a display screen being supported by the first handlebar mounting portion.

12. The electrical bicycle shift control assembly according to claim 11, further comprising

a second shift control device including a second handlebar mounting portion configured to be clamped onto a handlebar and a second electrical shift control switch portion mounted to the second handlebar mounting portion,

the bicycle computer unit being supported between the first and second shift control device by at least the first handlebar mounting portion.

13. The electrical bicycle shift control assembly according to claim 11, wherein

the first handlebar mounting portion includes a band section and a computer support leg extending from the band section, and the bicycle computer unit is attached to the computer support leg of the first handlebar mounting portion.

14. The electrical bicycle shift control assembly according to claim 13, wherein

the computer support leg includes a bent section such that the bicycle computer unit is longitudinally offset from the band section along the handlebar.

15. The electrical bicycle shift control assembly according to claim 11, wherein

the first electrical shift control switch portion includes a first operating member arranged and configured to move relative to the first handlebar mounting portion between a first neutral position and a first actuating position.

16. The electrical bicycle shift control assembly according to claim 15, wherein

the first operating member is further arranged and configured to be selectively moved relative to the first handlebar mounting portion between the first neutral position and a second actuating position that is spaced from the first actuating position.

17. The electrical bicycle shift control assembly according to claim 16, wherein

the first electrical shift control switch portion further includes a first biasing element arranged and configured to urge the first operating member to the first neutral position.

18. The electrical bicycle shift control assembly according to claim 11, wherein

the first electrical shift control switch portion is detachably coupled to the first handlebar mounting portion such that the first electrical control switch portion is removable from the first handlebar mounting portion without removing the first handlebar mounting portion from the handlebar.

19. The electrical bicycle shift control assembly according to claim 15, wherein

the first operating member of the first electrical shift control switch portion is further arranged and configured to rotate about a first operating axis between the first neutral position and the first actuating position.

20. The electrical bicycle shift control assembly according to claim 19, wherein

the first operating member has a first dial element with at least one first projection extending radially outwardly from the first dial element relative to the first operating axis.

21. The electrical bicycle shift control assembly according to claim 20, wherein

the first dial element has a flange element extending outwardly therefrom that is circumferentially spaced from the first projection about the operating axis.

22. An electrical bicycle shift control device comprising:
a handlebar mounting portion configured to be clamped onto a handlebar; and
an electrical shift control switch portion coupled to the handlebar mounting
portion, the electrical shift control switch portion including an operating member
arranged and configured to move relative to the handlebar mounting portion between
a neutral position and a first actuating position,

the operating member including a dial-shaped element that is configured and
arranged to rotate about an operating axis to move the operating member between the
neutral position and the first actuating position.

23. The electrical bicycle shift control device according to claim 22,
wherein

the dial-shaped element has at least one projection extending radially
outwardly from the dial-shaped element relative to the operating axis.

24. The electrical bicycle shift control device according to claim 23,
wherein

the dial element has a flange element extending outwardly therefrom that is
circumferentially spaced from the projection about the operating axis.

25. The electrical bicycle shift control device according to claim 23,
wherein

the at least one projection has a radial dimension that is about the same as a
maximum radial dimension of the dial-shaped element as measured relative to the
operating axis.

26. The electrical bicycle shift control device according to claim 22,
wherein

the handlebar mounting portion includes a curved mounting surface extending
about a central axis to contact the handlebar and the operating axis is non-parallel to
the central axis.

27. The electrical bicycle shift control device according to claim 26,
wherein

the operating axis intersects the curved mounting surface of the handlebar mounting portion.

28. The electrical bicycle shift control device according to claim 22, wherein

the electrical shift control switch portion is detachably coupled to the handlebar mounting portion such that the electrical control switch portion is removable from the handlebar mounting portion without removing the handlebar mounting portion from the handlebar.

29. The electrical bicycle shift control device according to claim 22, wherein

the operating member is further arranged and configured to be selectively moved relative to the handlebar mounting portion between the neutral position and a second actuating position that is spaced from the first actuating position.

30. The electrical bicycle shift control device according to claim 29, wherein

the electrical shift control switch portion further includes a biasing element arranged and configured to urge the operating member to the neutral position.

31. The electrical bicycle shift control device according to claim 30, wherein

the dial-shaped element of the operating member is further arranged and configured to rotate about the operating axis to move the operating member between the neutral position and the first and second actuating positions.

32. An electrical bicycle shift control device comprising:
a handlebar mounting portion configured to be clamped onto a handlebar; and
an electrical shift control switch portion coupled to the handlebar mounting portion, the electrical shift control switch portion including an operating member arranged and configured to move relative to the handlebar mounting portion between a neutral position and a first actuating position,

the operating member including a lever-shaped element that is configured and arranged to rotate about an operating axis to move the operating member between the neutral position and the first actuating position.

33. The electrical bicycle shift control device according to claim 32,
wherein

the lever-shaped element includes two finger operating portions.

34. The electrical bicycle shift control device according to claim 32,
wherein

the operating member is further arranged and configured to be selectively moved relative to the handlebar mounting portion between the neutral position and a second actuating position that is spaced from the first actuating position.

35. The electrical bicycle shift control device according to claim 34,
wherein

the electrical shift control switch portion further includes a biasing element arranged and configured to urge the operating member to the neutral position.

36. The electrical bicycle shift control device according to claim 34,
wherein

the lever-shaped element of the operating member is further arranged and configured to rotate about the operating axis to move the operating member between the neutral position and the first and second actuating positions.